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Varietal Description of Fiesta Pinto Field Bean

Origin and breeding

Fiesta Pinto was derived from the cross between UI 111 and an F_1 plant from UI 111 and a great northern type variety made in 1975. This great northern type was derived from Curly Top/Mosaic Resistant GN. Following the backcross, the pure line breeding system was followed through the S_5 generation. During this time, selection for seed color and type, plant structure, yield, maturity and resistance to bean common mosaic virus was conducted. A single S_5 line was selected and subsequently multiplied. This variety, tested as Pinto ISB 4-111, was developed by the Idaho Seed Bean Co., Twin Falls, Idaho.

Varietal characteristics

Plant characteristics

Growth habit: indeterminate; wide bush with moderate runners

Leaves: medium size; medium green; glossy; wrinkled

Stems: nine primary branches; open branching habit; thick wirey main stem; anthocyanin present; short to medium length runners

Flowers: white with very faint lilac veins

Pods: scattered; smooth, green-red variegated; sparse pubescence; flat cross-section; no creaseback; slightly curved spur; deep constrictions; high fibre; suture string present; 6 seeds per pod

Seeds: dull; buff with brown mottling; narrow, orange yellow hilar ring; elliptical hilum view and cross-section; oval to oblong sideview; round and truncate ends

Plant height: intermediate

Maturity: earlier than Seafarer

Disease reaction: susceptible to Fusarium root rot

Performance

Fiesta Pinto is an early maturing variety with good yield and high seed weight.

Maintenance of breeder seed

Idaho Seed Bean Co., Twin Falls, Idaho

Canadian distributor

R.T. Stow Ltd.

Recommended by

Western Expert Committee on Grain Breeding

Table 1. Agronomic performance of Fiesta Pinto and check varieties, Alberta field bean trials*, 1984-1987

Variety	Type	Maturity (d)	Yield (kg/ha)	Average yield index (%)	1000 seed weight (g)
UI 111**	Pinto	111.0	2,844.9	50.5	357.1
Northland	Navy	101.1	1,671.0	52.0	171.4
Seafarer	Navy	105.9	2,227.2	49.0	199.4
OAC Seaforth	Navy	108.2	2,321.8	46.0	209.8
Kentwood	Navy	113.0	1,461.3	—	200.0
Fiesta Pinto	Pinto	103.5	2,803.8	49.5	405.1

*Brooks and Bow Island

**Unregistered pinto check

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Table 2. Agronomic performance of Fiesta Pinto and check varieties, Manitoba field bean trials, 1984-1987

Variety	Yield (% of Seafarer)*	Maturity (d)	1000 seed weight (g)
Seafarer	100.0	96.4	185
Ex Rico 23	103.5	103.4	180
OAC Seaforth	105.5	101.5	184
Kentwood	103.0	98.9	223
UI III	137.1	98.5	343
Fiesta Pinto	113.5	94.0	370

*Seafarer yield = 1,703 kg/ha

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